

Appln No. 10/789,218
Amdt date May 2, 2006
Reply to Office action of November 2, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-20 (Cancelled)

21. (Withdrawn) The liquid feed system of claim 20, the positive displacement pump having;

a casing with opposing ends;

an inlet tube at one end of the casing for coupling, in fluid communication, the casing to the at least one tube;

a cylinder connected to the casing, the cylinder including a piston cavity, the piston cavity defined at one end by a cavity wall, the cavity wall having an opening;

a piston slideably positioned in the piston cavity, the piston having a passage and a slot;

a spring positioned within the piston cavity between the piston and the opening in the cavity wall;

a first one-way valve located within the piston cavity between the spring and the cavity wall, the first one-way valve positioned to block liquid flow from the piston cavity through the opening in the cavity wall, while permitting liquid flow from the opening into the piston cavity;

a second one-way valve located within the piston cavity between the piston and the spring, the second one-way valve positioned to block liquid flow from the passage of the piston into the piston cavity, while permitting liquid flow from the piston cavity into the passage; and

a pin fixed in the cylinder and riding in the slot of the piston, the pin permitting sliding of the piston in the piston cavity while limiting the travel of the piston and preventing piston rotation.

22. (Withdrawn) The liquid feed system of claim 20, further comprising:

a mating cap having opposing ends, one end of the mating cap for engaging the nozzle, and the other end of the mating cap coupled, in fluid communication, to the at least one tube.

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23. (Withdrawn) A liquid feed system comprising:
at least one soap or lotion dispenser;
at least one collapsible fluid container containing soap or lotion, the container defining an outlet and having a nozzle extending from the outlet; and
at least one line coupling, in fluid communication, the nozzle of the collapsible fluid container to the at least one soap or lotion dispenser
wherein a first dispenser of the at least one soap or lotion dispenser includes a base and an adapter extending downward from the base, the adapter having an outlet to feed soap or lotion from the collapsible fluid container into the base, a first port and a second port.

24. (Withdrawn) The liquid feed system of claim 23, wherein the one line includes a first tube and a second tube, the first tube coupling, in fluid communication, the nozzle to the first port of the adapter, and the second tube extending, in fluid communication, from the second port of the adapter.

25. (Withdrawn) The liquid feed system of claim 24, wherein the first dispenser includes a manually operable positive displacement pump and each port opens transversely to a pumping axis of the pump.

26. (Withdrawn) The liquid feed system of claim 25, wherein one port is located above the other port.

27. (Withdrawn) The liquid feed system of claim 26, wherein the adapter is a continuous one-piece part.

28-31 (Cancelled)

32. (Withdrawn) The liquid feed system of claim 30, further comprising a container support means for supporting the collapsible fluid container.

33. (Withdrawn) The liquid feed system of claim 32, wherein the nozzle protrudes out a side wall of the container support means.

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34. (Cancelled)

35. (Cancelled)

36. (Withdrawn) The liquid feed system of claim 28, further comprising a conduit strip having opposing ends, a plurality of conduit ridges, and a plurality of conduit channels, the conduit strip connected to the interior surface of the collapsible fluid container, one end of the conduit strip adjacent the outlet and the other end of the conduit strip spaced further away from the outlet than the one end.

37. (New) A liquid feed system comprising:

at least one liquid dispenser having a manually operable positive displacement pump coupled in proximity to the liquid dispense to permit a user to actuate the pump to dispense soap or lotion from a dispenser outlet into the user's hand;

a collapsible fluid container containing soap or lotion that collapses as soap or lotion is dispensed, the container defining an outlet at a bottom portion of the container and having a nozzle extending from the outlet, the collapsible fluid container located at an elevation lower than the elevation of the at least one liquid dispenser; and

at least one line coupling, in fluid communication, the nozzle of the collapsible fluid container to the at least one soap or lotion dispenser, the line including a first flexible tube and a second flexible tube;

a connecting link adaptor having a first portion and a second portion matable to the first portion, the first portion configured to couple to the first flexible tube and the second portion configured to couple to the second flexible tube;

wherein the first portion includes a valve actuated by connecting and disconnecting the first portion to the second portion, so that the liquid flows from the collapsible fluid container to the second flexible tube when the first portion is connected to the second portion, and liquid is prevented from flowing from the collapsible fluid container, via the first portion, when the first portion is disconnected from the second portion; and

wherein the second portion includes a valve that is actuated by connecting and disconnecting the first portion to the second portion, whereby liquid is permitted to flow from the

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collapsible fluid container to the second flexible tube when the first portion is connected to the second portion, and liquid is prevented from flowing out of the second flexible tube, via the second portion, when the first portion is disconnected from the second portion.